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FOREST PRODUCTS LABORATORY
+ LIST OF PUBLICATIONS
ON
THE DRYING OF WOOD +

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FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS

ON

THE DRYING OF WOOD¹

This list, which begins on page 3, includes publications that give general information and the results of research by the U.S. Forest Service on the experimental and applied kiln drying, physical properties, air drying, steam bending.

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¹This list was previously issued as Forest Products Laboratory Report No. 446 under the same title.

INSTRUCTIONS FOR OBTAINING PUBLICATIONS

Publications available for distribution at this Laboratory are marked with an asterisk (*).

Single technical notes, reprints, duplicated reports may be obtained free upon request from the Director, Forest Products Laboratory, Madison, Wisconsin, 53705.

Federal Government bulletins, circulars, and leaflets, if not available for free distribution at this Laboratory, may be purchased at the price indicated from the Superintendent of Documents, Government Printing Office, Washington, D.C., 20401. Send money order, draft, or cash; stamps or personal checks are not accepted.

Trade journals containing articles herein listed may be consulted in various libraries.

The Forest Products Laboratory reserves the right to furnish only those publications which in its judgment will give the information requested. Blanket requests or requests for a large number of copies of any individual article will not be filled except in unusual cases.

PHYSICAL PROPERTIES OF WOOD AS RELATED TO SEASONING

Title	Author	Publication and date
*Moisture diffusion coefficients in wood as calculated from adsorption, desorption, and and steady state data.	Comstock, G. L.	For. Prod. Jour. 13(5):97-103, Mar. 1963.
*Torus of the bordered-pit membrane in conifers.	Sachs, I. B.	Nature 198:906-907, July 1, 1963.
A study of drying stresses in ponderosa pine (<u>Pinus ponderosa</u> Laws.).	McMillen, J. M.	Proceedings 15th Annual Meeting, Western Dry Kiln Clubs (West Coast Dry Kiln Club, c/o National Lumber Manufacturers' Association, Portland, Oreg.). 1963.
*Nuclear magnetic resonance studies on several cellulose-water systems.	Swanson, T., Stejskal, E. O., & Tarkow, H.	Tappi 45(12):929-932, Dec. 1962.
*Electron microscope expands horizons in wood research.	Sachs, I. B.	FPL Rept. 2256. 1962.
Water-content variation in the standing aspen tree.	Bendtsen, B. A., & Rees, L. W.	For. Prod. Jour. 12(9):426-428, Sept. 1962.
*Bacterial deterioration of pine logs in pond storage.	Knuth, D. T., & McCoy, E.	For. Prod. Jour. 12(9):437-442, Sept. 1962.
*Effect of drying conditions on durability of California redwood.	Anderson, A. B., Duncan, C. C., & Scheffer, T. C.	For. Prod. Jour. 12(7):311-312, July 1962.
*Machining and related characteristics of United States hardwoods.	Davis, E. M.	USDA Tech. Bull. 1267. 1962. Available from Superintendent of Documents, Government Printing Office, Washington, D.C., 20401. Price 35 cents.

PHYSICAL PROPERTIES OF WOOD AS RELATED TO SEASONING

(continued)

Title	Author	Publication and date
*Color tests for differentiating heartwood and sapwood in certain softwood tree species.	Kutscha, N., & Sachs, I. B.	FPL Rept. 2246. 1962.
*Changes in dimension on heating green wood.	Yokota, T., & Tarkow, H.	For. Prod. Jour. 12(1):43-52, Jan. 1962.
*Recent progress toward an understanding of the physical and mechanical properties of wood.	Youngs, R. L.	For. Prod. Jour. 11(5):214-225, May 1961.
*Effectiveness of stabilized surface layers of wood as moisture barriers.	Tarkow, H., & Ishaq, S. M.	For. Prod. Jour. 11(4):203-204, Apr. 1961.
*Determining the distribution of interstructural openings in wood.	Stamm, A. J., & Wagner, E.	For. Prod. Jour. 11(3):141-144, Mar. 1961.
*Wetwood, bacteria, and increased pH in trees.	Hartley, C., Davidson, R. W., & Crandall, B. S.	FPL Rept. 2215. 1961.
*List of publications on thermal properties of wood.		FPL Rept. 2222. 1961.
*Weights of various woods grown in the United States.		FPL Tech. Note 218. Reissued 1961.
*Longitudinal shrinkage of wood.		FPL Rept. 1093. Revised 1960.
*Method of calculating shrinkage or swelling of wood with change in moisture content.	Peck, E. C.	FPL Rept. 1769-27. 1960.

PHYSICAL PROPERTIES OF WOOD AS RELATED TO SEASONING

(continued)

Title	Author	Publication and date
*Drying stresses and stress relief in thin sections of wood.	Kuebler, H.	FPL Rept. 2164. 1960.
*Significance of tension wood in furniture cuttings of red oak.	Lassen, L. E., & Cooper, G. A.	FPL Rept. 2193. 1960.
*Interaction of moisture and wood.	Tarkow, H.	FPL Rept. 2198. 1960.
New method of calculating internal stresses in wood.	Youngs, R. L., & Norris, C. B.	For. Prod. Jour. 9(10):367-371, Oct. 1959.
*Recommendations of the Madison Conference on fundamental research in wood drying.	Youngs, R. L.	For. Prod. Jour. 9(3):121-124, Mar. 1959.
General summary of the FPL wood stabilization seminar.	Tarkow, H.	For. Prod. Jour. 9(3):110-111, Mar. 1959.
Toward new and better means of dimensionally stabilizing wood.	Stamm, A. J.	For. Prod. Jour. 9(3):107-110, Mar. 1959.
*Report of dimensional stabilization seminar held at U.S. Forest Products Laboratory, Madison, Wisconsin, January 21-23, 1959.		FPL Rept. 2145. 1959.
*Stresses in wood during drying.	McMillen, J. M.	FPL Rept. 1652. Revised 1958.

PHYSICAL PROPERTIES OF WOOD AS RELATED TO SEASONING

(continued)

Title	Author	Publication and date
*Effects of wood preservatives on electrical moisture-meter readings.		: FPL Rept. 1682. Information Reviewed and Reaffirmed 1958.
*Occurrence of tension wood and related seasoning defects in California black oak.	: Wahlgren, H. E.	: FPL Rept. 2106. 1958. Information Reviewed and Reaffirmed 1963.
*A method of calculating internal stresses in drying wood.	: Youngs, R. L., & Norris, C. B.	: FPL Rept. 2133. 1958. Information Reviewed and Reaffirmed 1963.
*Bending solid wood to form.	: Peck, E. C.	: USDA Ag. Handbook No. 125. 37 pp. 1957.
*Mechanical properties of red oak related to drying.	: Youngs, R. L.	: For. Prod. Jour. 7(10):315-324, Oct. 1957.
*How wood shrinks and swells.	: Peck, E. C.	: For. Prod. Jour. 7(7):235-244, July 1957.
*The perpendicular-to-grain mechanical properties of red oak as related to temperature, moisture content, and time.	: Youngs, R. L.	: FPL Rept. 2079. 1957. Information Reviewed and Reaffirmed 1963.
*Methods of determining the specific gravity of wood.		: FPL Tech. Note B-14. Revised 1956.
*Standard terms for describing wood.		: FPL Rept. 1169. Revised 1956. Information Reviewed and Reaffirmed 1960.

PHYSICAL PROPERTIES OF WOOD AS RELATED TO SEASONING

(continued)

Title	Author	Publication and date
*Drying stresses in red oak: Effect of temperature.	McMillen, J. M.	For. Prod. Jour. 5(4):230- 241, Aug. 1955.
*Drying stresses in red oak.	McMillen, J. M.	For. Prod. Jour. 5(1):71- 76, Feb. 1955.
*Effects of tension wood in hardwood lumber and veneer.	Pillow, M. Y.	FPL Rept. 1943. 1953. In- formation Reviewed and Re- affirmed 1962.
*Computed thermal conduc- tivity of common woods.		FPL Tech. Note 248. 1952.
*The fiber-saturation point of wood.		FPL Tech. Note 252. 1952.
*Exudation of pitch and oils in wood.	Browne, F. L., & Rietz, R. C.	FPL Rept. 1735. 1949. In- formation Reviewed and Re- affirmed 1959.
Thermodynamics of the swelling of wood.	Stamm, A. J., & Loughborough, W. K.	Jour. Physical Chem. 39(1), Jan. 1935.
*Same . . .		FPL Rept. 1215. 1935. In- formation Reviewed and Reaffirmed 1960.

MOISTURE CONTENT DETERMINATION AND SPECIFICATIONS

*Electric moisture meters for wood.	James, W. L.	Research Note FPL-08. 1963.
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MOISTURE CONTENT DETERMINATION AND SPECIFICATIONS

(continued)

Title	Author	Publication and date
Proposed tentative methods of test for moisture content of wood.		Subcommittee XI on Moisture Content of Timber, Committee D-7, ASTM. R. C. Reitz, Chairman.
*Calibration of electric moisture meters for jack and red pine, black spruce, paper birch, black ash, eastern hemlock, and bigtooth aspen.	James, W. L.	FPL Rept. 2208. 1961.
*Using a resistance-type wood moisture meter to appraise decay hazard.	Moses, C. S., & Scheffer, T. C.	FPL Rept. 2147. 1959.
*Effects of wood preservatives on electrical moisture-meter readings.		FPL Rept. 1682. Information Reviewed and Reaffirmed 1958.
*Comparison of three methods of determining whether southern pine poles are well air seasoned.	Mathewson, J. S., & Berger, P. J.	For. Prod. Jour. 7(5):174-177, May 1957.
Accuracy of electric moisture meter readings on jack pine posts.	Mathewson, J. S.	For. Prod. Jour. 5(5):359-361, Oct. 1955.
*Effect of plywood glue lines on the accuracy of moisture-meter indications.	Bell, E. R., & Krueger, N. T.	Forest Products Research Society Proceedings, 1949.
Quality control and seasoning.	Rietz, R. C.	Forest Products Research Society Proceedings, 1949.

MOISTURE CONTENT DETERMINATION AND SPECIFICATIONS

(continued)

Title	Author	Publication and date
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*Methods of determining the moisture content of wood.	McMillen, J. M.	FPL Rept. 1649. 1947. Information Reviewed and Reaffirmed 1962.
*Moisture content of wood in use.	Peck, E. C.	FPL Rept. 1655. 1947. Information Reviewed and Reaffirmed 1961.

PREDRYING TREATMENTS

*U.S. Forest Products Laboratory notes on the treatment of wood with polyethylene glycol.		Research Note FPL-06. 1963.
*Pretreatments for the protection of southern yellow pine poles during air seasoning.	Panek, E.	American Wood Preservers' Association Proceedings, Vol. 59, 1963.
*Protect imported carvings with PEG.	Mitchell, H. L., & Fobes, E. W.	For. Prod. Jour. 12(10):476-477, Oct. 1962.
*Seasoning green-wood carvings with polyethylene glycol-1000.	Mitchell, H. L., & Iversen, E. S.	For. Prod. Jour. 11(1):6-7, Jan. 1961.
*List of manufacturers and dealers for log and lumber end coatings.		FPL Rept. 1954. Revised 1961.
New antishrink treatment improves wood for gunstocks, other uses.	Mitchell, H. L.	Wood and Wood Products 65(11):50, 52, 102, Nov. 1960.

PREDRYING TREATMENTS (continued)

Title	Author	Publication and date
*Water sprays protect hardwood logs from stain and decay.	: Lane, P. H., & : Scheffer, T. C.	: For. Prod. Jour. 10(6):277- : 282, June 1960.
*Protecting bulk-piled green lumber from fungi by dip treatment.	: Scheffer, T. C., & : Drow, J. T.	: FPL Rept. 2201. 1960.
*New chemical treatment curbs shrink and swell of walnut gunstocks.	: Mitchell, H. L., & : Wahlgren, H. E.	: For. Prod. Jour. 9(12):437- : 441, Dec. 1959.
*Effect of polyethylene glycol on the dimensional stability of wood.	: Stamm, A. J.	: For. Prod. Jour. 9(10):375- : 381, Oct. 1959.
*Control of decay and sap stain in logs and green lumber.	: Scheffer, T. C.	: FPL Rept. 2107. 1958.
*Cause and prevention of blue stain in wood.		: FPL Tech. Note. 225. 1958.
*Dimensional stabilization of wood with carbowaxes.	: Stamm, A. J.	: For. Prod. Jour. 6(5):201- : 204, May 1956.
*Effect of yard-piling methods and salt treatment on checking of 5/4 red oak lumber.	: Torgeson, O. W.	: FPL Rept. 1759. 1950. In- : formation Reviewed and Re- : affirmed 1961.
Chemical treatment and seasoning of thick beech stock.	: Peck, E. C., : Baker, G., & : Carter, R. M.	: Cosgrove's Mag., June : 1948. Wood, June 1948. : Timber of Canada, June : 1948.
*...Same.		: FPL Rept. 1708. 1948. In- : formation Reviewed and Re- : affirmed 1960.

PREDRYING TREATMENTS (continued)

Title	Author	Publication and date
*Coatings for the prevention of end checks in logs and lumber.	McMillen, J. M.	FPL Rept. 1435. 1943. Information Reviewed and Reaffirmed 1961.

AIR DRYING OF LUMBER

*Electric moisture meters for wood.	James, W. L.	Research Note FPL-08. 1963.
*Characteristics of Alaska woods.		Research Paper FPL 1. 1963.
*Comparative strength of air-dried and kiln-dried wood.		FPL Tech. Note 180. Reissued 1961.
*Approximate air-drying and kiln-drying periods for 1-inch lumber.		FPL Tech. Note 233. Revised 1960.
*Status of wood drying--1959 (Research and practice in the U.S., Canada, and Europe).	McMillen, J. M., Preston, S. B., & Kozlik, C. J.	For. Prod. Jour. 10(2):82-90, Feb. 1960.
*Air drying of 4/4 red oak in southern Wisconsin.	Peck, E. C.	For. Prod. Jour. 9(7):197-203, July 1959.
*Air drying and sticker staining of 4/4 sugar maple flooring in Upper Michigan.	Peck, E. C.	FPL Rept. 2086. 1957. Information Reviewed and Reaffirmed 1963.
*Air drying of lumber.	Peck, E. C.	FPL Rept. 1657. Revised 1956. Information Reviewed and Reaffirmed 1961.

AIR DRYING OF LUMBER (continued)

Title	Author	Publication and date
*A method of seasoning small quantities of lumber.	Rasmussen, E. F.	FPL Rept. 1608. Information Reviewed and Reaffirmed 1958.
*Air drying of ponderosa pine lumber in Arizona.	Peck, E. C., Kotok, E. S., & Mueller, L. A.	For. Prod. Jour. 6(2):88-96, Feb. 1956.
Lumber seasoning during construction. ... Same.	Doyle, D. V.	South. Lbrmn. 191(2383):42, July 15, 1955. Carpenter & Bldr., Convention Issue 1955.
*Seasoning beech lumber.	Baker, G., & McMillen, J. M.	Beech Utilization Series No. 11. 1955. Northeastern Forest Experiment Station, Forest Service, USDA, 102 Motors Ave., Upper Darby, Pa. 19082.
Effects of machine stacking on drying rate and degrade.	Peck, E. C.	South. Lbrmn., Sept. 1, 1954.
*The air drying of Englemann spruce.	Peck, E. C.	FPL Rept. 1944-5. 1953. Information Reviewed and Reaffirmed 1960.
*"New Look" in air drying lumber yards.	Peck, E. C.	Southern Building Supplies. Apr. 1952.
*Seasoning of white oak for tight cooperage.	Rasmussen, E. F., & McMillen, J. M.	FPL Rept. 1784. 1950. Information Reviewed and Reaffirmed 1963.
*Air seasoning of lodgepole pine poles.	Mathewson, J. S.	FPL Rept. 1922. Information Reviewed and Reaffirmed 1963.

AIR DRYING OF LUMBER (continued)

Title	Author	Publication and date
*Forest Products Laboratory instructions in flat piling to take care of variations in local conditions and in species and sizes of stock.		FPL Rept. 1672. Information Reviewed and Reaffirmed 1961.
*Air seasoning of red oak crossties.	Mathewson, J. S., Morton, C. S., & Bescher, R. H.	American Wood-Preservers' Association Proceedings, 1949.
*Seasoning of aspen.	Smith, H. H.	Lake States Aspen Rept. No. 5. 1947. Lake States Forest Experiment Station, Forest Service, USDA, St. Paul Campus, University of Minnesota, St. Paul, Minnesota. 55101.
*Production, seasoning, and shipping of balsa.	Teesdale, L. V.	Timberman, Sept.-Oct.-Nov. 1943.
Stains of sapwood and sapwood products and their control.	Scheffer, T. C., & Lindgren, R. M.	USDA Technical Bulletin No. 714. 1940.
*Seasoning dimension stock.	Torgeson, O. W.	FPL Rept. 1242. 1932. Information Reviewed and Reaffirmed 1961.

SOLAR DRYING

*Drying by solar radiation in Puerto Rico.	Maldonado, E. D., & Peck, E. C.	For. Prod. Jour. 12(10):487-488, Oct. 1962.
*Drying lumber by solar	Peck, E. C.	Sun At Work 7(3):4-5, 7. 1962.

SOLAR DRYING (continued)

Title	Author	Publication and date
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*Drying 4/4 red oak by solar heat.	: Peck, E. C.	: For. Prod. Jour. 12(3):103-107, Mar. 1962.

KILN DRYING OF LUMBER

*List of dry-kiln companies and engineers and consultants in the United States.	:	:	FPL Rept. 63-019. 1963.
	:	:	
	:	:	
*Full-time or part-time kiln drying.	:	:	Rasmussen, E. F., South. Lbrmn., Dec. 15, 1961, pp. 99-104.
	:	:	M. B.
	:	:	
Dry Kiln Operator's Manual.	:	:	Rasmussen, E. F. : Agriculture Handbook No. 188. 1961. Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20401. Price \$1.00.
	:	:	
*Separates from Dry Kiln Operator's Manual:	:	:	Ag. Hdbk. No. 188. 1961.
Chapter	:	:	
* Introduction.	:	:	
*1 Properties of wood related to drying.	:	:	
*2 Kiln types and features.	:	:	
*3 Auxiliary kiln equipment.	:	:	
*4 Inspection and maintenance of dry kilns and equipment.	:	:	

KILN DRYING OF LUMBER (continued)

Title	Author	Publication and date
*Separates from Dry Kiln Operator's Manual: (continued) Chapter		
*5 Stacking lumber and other items for kiln-drying.		
*6 Kiln samples.		
*7 Loading the dry kiln.		
*8 Kiln schedules and drying time.		
*9 Drying defects.		
*10 Operating a dry kiln.		
*11 Storage of wood.		
*Comparative strength of air-dried and kiln-dried wood.		FPL Tech. Note 180. Re-vised 1961.
How to reduce degrade and kiln-drying costs.	Rasmussen, E. F.	Furniture Design and Manufacturing 32(3):53-54, 64, Mar. 1960.
*Kiln drying of Englemann spruce.	Rietz, R. C.	FPL Rept. 1944-6. 1960.
*Approximate air-drying and kiln-drying periods for 1-inch lumber.		FPL Tech. Note 233. Re-vised 1960.
*Properties of white-pocket Douglas-fir lumber.	Wood, L. W.	FPL Rept. 2017. Information Reviewed and Re-affirmed 1960.
*Seasoning hickory lumber and handle blanks.	McMillen, J. M.	Hickory Task Force Rept. No. 4. June 1956. 36 pp. Southeastern Forest Experiment Station, Forest Service, USDA, Asheville, N.C. 28802.

KILN DRYING OF LUMBER (continued)

Title	Author	Publication and date
*Drying schedule for thin red oak.	Kimball, K. E.	South. Lbrmn. 191(2393): 252-254, Dec. 15, 1955.
*Kiln drying water and swamp tupelo.	McMillen, J. M.	Jour. Forest Products Research Society 3(5):189-196, Dec. 1953.
*A small lumber-drying unit employing a portable crop drier for heat and air circulation.	Kimball, K. E., & Torgeson, O. W.	FPL Rept. 1799. 1952. Information Reviewed and Reaffirmed 1959.
Accelerating the kiln drying of hardwoods.	Rietz, R. C.	South. Lbrmn. 181(2262): 43-44, 54, July 1, 1950.
*News and views of this kiln drying business:		
*Have you been experiencing wood fabrication troubles in the spring when factory switches from winter heating to opening of windows?	Rietz, R. C.	Wood, Apr. 1950. FPL Rept. 1769-2. 1950.
*What are the advantages and disadvantages of the package-loaded dry kiln?	Rietz, R. C.	Wood, Nov. 1955. FPL Rept. 1769-7. 1955. Information Reviewed and Reaffirmed 1960.
*What are some of the advantages and disadvantages of package-loaded kiln trucks?	Rietz, R. C.	Wood, Jan. 1951. FPL Rept. 1769-8. 1951. Information Reviewed and Reaffirmed 1960.
*How is case-hardening in kiln-dried lumber determined?	Rietz, R. C.	Wood, July 1951. FPL Rept. 1769-10. 1951. Information Reviewed and Reaffirmed 1962.

KILN DRYING OF LUMBER (continued)

Title	Author	Publication and date
*News and views of this kiln drying business: (continued)		
*What precautions will minimize seasoning defects in the kiln drying of green oak lumber?	Torgeson, O. W.	Wood, July 1951. FPL Rept. 1769-11. 1951. Information Reviewed and Reaffirmed 1960.
*Do cross-piled, cross circulation lumber dry kilns produce uniformly dried lumber?	Rietz, R. C.	Wood, Oct. 1951. FPL Rept. 1769-12. 1951. Information Reviewed and Reaffirmed 1960.
*How can black walnut gunstock blanks be kiln dried without honey-combing?	McMillen, J. M.	Wood, Dec. 1951. FPL Rept. 1769-13. 1951. Information Reviewed and Reaffirmed 1960.
*Does weighting of kiln loads reduce warping in kiln drying of hardwoods?	Torgeson, O. W.	Wood and Wood Products, Apr. 1952. FPL Rept. 1769-14. 1952. Information Reviewed and Reaffirmed 1960.
*Do resistance-type moisture meters correctly indicate the moisture content of wood treated with a water-repellent preservative containing pentachlorophenol?	James, W. L.	FPL Rept. 1769-15. 1954. Information Reviewed and Reaffirmed 1960.
*What is the cost of steam lost through leaks?	Mathewson, J. S.	FPL Rept. 1769-16. 1955. Information Reviewed and Reaffirmed 1960.
*Fork-lift piling of lumber packages without bolsters.	Westerholm, G.	FPL Rept. 1759-17. 1955. Information Reviewed and Reaffirmed 1960.
*The splitting and breaking of lumber when kiln charges are loaded and unloaded by power winch and cable.	Owens, J.	FPL Rept. 1769-18. 1955. Information Reviewed and Reaffirmed 1960.

KILN DRYING OF LUMBER (continued)

Title	Author	Publication and date
*News and views of this kiln drying business: (continued)		
*Loading and unloading track-type dry kilns with a lift truck for motive power.	Kinney, W. A.	FPL Rept. 1769-19. 1955. Information Reviewed and Reaffirmed 1960.
*How to design a sticker rack and guide so that lumber can be unloaded from a boxcar and piled directly onto kiln trucks, ready for cross-piled kilns.	Warfield, G. J.	FPL Rept. 1769-20. 1956. Information Reviewed and Reaffirmed 1963.
*Supplying stackers with lumber and keeping stacking stalls free in a lift-truck operation.	Padgett, P.	FPL Rept. 1769-21. 1956. Information Reviewed and Reaffirmed 1963.
*Protecting packages of dry lumber when sheds are not available.		FPL Rept. 1769-22. 1956. Information Reviewed and Reaffirmed 1963.
*How can sticker stain in hardwood lumber be prevented?	Peck, E. C.	FPL Rept. 1769-23. 1956. Information Reviewed and Reaffirmed 1962.
*To determine the moisture content of boards in a piled load of lumber before take down.	Martin, L.	FPL Rept. 1769-24. 1958. Information Reviewed and Reaffirmed 1963.
*Designing stacking stalls suitable for stickering packages of lumber for lift-truck handling prior to air or kiln drying.	Ostermeier, G.	FPL Rept. 1769-25. 1959.
*Can American elm be dried without excessive warping?	McMillen, J. M.	FPL Rept. 1769-26. 1960.

KILN DRYING OF LUMBER (continued)

Title	Author	Publication and date
*News and views of this kiln drying business: (continued)		
*Method of calculating shrinkage or swelling of wood with change in moisture content.	Peck, E. C.	FPL 1769-27. 1960.
*Chemical brown stain in pine.		FPL Tech. Note 254. Revised 1952.
*Furnace-type lumber dry kiln.	Torgeson, O. W., & Smith, H. H.	FPL Rept. 1474. Information Reviewed and Reaffirmed 1963.
*Seasoning of Ohio "red" willow artificial-limb blanks.	Torgeson, O. W.	FPL Rept. 1636. 1947. Information Reviewed and Reaffirmed 1963.
*Relative humidity and equilibrium moisture content graphs and tables for use in kiln drying lumber.		FPL Rept. 1651. Information Reviewed and Reaffirmed 1963.
*Small demountable-type lumber dry kiln for experimental drying.	Torgeson, O. W.	FPL Rept. 1671. 1947. Information Reviewed and Reaffirmed 1961.
*Kiln drying of white birch turning squares.		FPL Rept. 1702. Information Reviewed and Reaffirmed 1962.

(Some reports containing information on kiln drying aspen, balsa, beech, and Alaskan woods are listed under "Air Drying of Lumber.")

DRY KILN MECHANICS

Title	Author	Publication and date
*The drying rate of sugar maple as affected by relative humidity and air velocity.	Torgeson, O. W.	FPL Rept. 1264. Information Reviewed and Reaffirmed 1963.
*Function and calculation of ventilation in drying compartments.	Torgeson, O. W.	FPL Rept. 1265. Information Reviewed and Reaffirmed 1963.
*Testing commercial kilns for uniformity of drying conditions.	Kimball, K. E.	FPL Rept. 1643. Information Reviewed and Reaffirmed 1963.
*Simplifying the calculation of the quantity of air required in kiln drying lumber.	Torgeson, O. W.	FPL Rept. 1266. Information Reviewed and Reaffirmed 1960.
*A wood-element hygrostat.	Johnson, S. J., & Rasmussen, E. F.	FPL Rept. 1602. Information Reviewed and Reaffirmed 1959.
*Steam requirements in lumber dry kilns.		FPL Rept. 1478. Revised 1956. Information Reviewed and Reaffirmed 1961.
*Humidity controls for conditioning rooms.	Scheffer, T. C.	FPL Rept. 2048. 1956. Information Reviewed and Reaffirmed 1963.
*Need for uniformity of temperature in a forced-air-circulation, ventilated, dry kiln.	Rasmussen, E. F.	FPL Rept. 1669. 1947. Information Reviewed and Reaffirmed 1963.
*Dry-kiln building materials and construction.	Teesdale, L. V.	FPL Rept. 1646. 1947. Information Reviewed and Reaffirmed 1962.

DRY KILN MECHANICS (continued)

Title	Author	Publication and date
*Circulation of air in a lumber dry kiln.	Torgeson, O. W.	FPL Rept. 1678. 1947. Information Reviewed and Reaffirmed 1959.

SPECIAL DRYING METHODS

*Accelerated drying of lodge-pole pine and western larch poles.	Lowery, D. P., & Rasmussen, E. F.	For. Prod. Jour. 13(6):221-226, June 1963.
*Special methods of seasoning wood:		
*Boiling in oily liquids.		FPL Rept. 1665. Revised 1961.
*High-temperature drying: Its application to the drying of lumber.		FPL Rept. 1665-1. 1957. Information Reviewed and Reaffirmed 1963.
*Solvent seasoning.		FPL Rept. 1665-2. Revised 1961.
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The following lists of publications that deal with the other investigative projects of the Forest Products Laboratory are obtainable upon request:

Boxing and Crating	Logging, Milling, and Utilization of Timber Products
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Fungus and Insect Defects in Forest Products	Thermal Properties of Wood
Furniture Manufacturers, Woodworkers and Teachers of Woodshop Practice	Wood Finishing Subjects
Glue and Plywood	Wood Preservation
Growth, Structure, and Identification of Wood	

Note: Since Forest Products Laboratory publications are so varied in subject matter no single big list is issued. Instead, a list is made for each Laboratory division. Twice a year, December 31 and June 30, a list is made showing new reports for the previous 6 months. This is the only item sent regularly to the Laboratory's mailing list. Any one who has asked for and received the proper subject lists and who has had his name placed on the mailing list can keep up-to-date on Forest Products Laboratory publications. Each subject list carries a listing of all other subject lists.

